

# ScanFish

ROTV undulating platform

- Oceanographic research
- Hydrographic surveys
- Side scan surveys
- Magnetometer surveys
- Fishery research
- Environmental impact studies
- UXO/mine hunting



## Multi-purpose ROTV

The ScanFish is a multi-purpose Remotely Operated Towed Vehicle (ROTV). Its flexible design allows for mounting of a wide range of sensors and instrumentation, not only inside or on the sides of the vehicle but also at the upper surface or hanging below the vehicle, thus making it suited for many different tasks.

## Ease of operation

The ScanFish is designed for maximum hydro-dynamic stability and payload as well as low weight for ease of handling. The ScanFish Mini can be handled by one person, the ScanFish III requires 2 persons.

## Powerful – yet affordable

The ScanFish offers great performance at affordable price.

- Complete system available including ScanFish with your choice of sensors installed, topside controller, flight software and handling system
- Self-stabilizing operation with built-in sensors for depth, roll, pitch and up/down positioning
- Internal or external sensors, 2x3 side mounts and ability to mount sensors on top or hanging below
- Intelligent seabed collision avoidance
- Terrain following mode (fixed height)
- Fixed depth mode
- Undulation V-pattern mode

# About EIVA ScanFish

With the third generation ScanFish ROTV we have increased performance based on lessons learned from the many years of operation of the previous generation ScanFish.

## Proven design – but all new

The outer design and dimensions are unchanged so it is easy to mistake the ScanFish III for its predecessor. However, nothing is the same – we have given all components a redesign based on our experience. The materials and construction methods are new – and the result is an even stronger and more durable product.

## More payload

The new design with the control electronics in the center of the main body makes room for extra sensors – in fact we can now fit 2x3 sensors on the sides plus what can be mounted on top and below the ROTV. The increased strength of the flap motors allows for more drag and enables more payload weight as well.

## Simpler service

While redesigning the outer shell, we wanted it to be simpler to service. The latches are bigger enabling easy access. For large installations the top half of the shell can be unbolted and in case of damages we are now able to offer each component as spare part for simple replacement.

## Higher performance

We have upgraded all the electronics resulting in faster regulation and higher bandwidth of communication.

Technical Specifications		
<b>Dimensions</b>	<b>ScanFish III</b>	<b>Mini</b>
• Length	0.90 m	0.60 m
• Height	0.26 m	0.19 m
• Width	1.80 m	0.95 m
• Weight air (water)	75 (0) kg	35 (3) kg
<b>Performance</b>	<b>ScanFish III</b>	<b>Mini</b>
• Depth range	0 - 400 m	0 - 100 m
• Undulating range	up to 150 m	up to 50 m
With ScanWinch	up to 400 m	up to 100 m
• Towing speed	0.5-10 knots	2-10 knots
• Vertical speed	0.1-1.0 m/sec	0.1-1.0 m/sec
• Pay load	approx. 50 kg	approx. 15 kg
<b>Winch and cable system</b>		
• ScanWinch for full undulating systems at 100 m, 250 m and 400 m water depths		
• Customer specific winch systems can be supplied		

## ScanFish

Typical sensors mounted

- Magnetometer – also mounted as gradiometer
- Sidescan sonar mounted below the ROTV
- Fluorometer
- Turbidity sensor
- Transmissionmeter
- Oxygen Sensor
- Optical plankton counter
- Video camera

